

HANDICAP EVENTS ATTRACT MANY TO THIRD FALL MEET

Grondal, DeFazio, and Broder
Win from Scratch in
Their Events

FINAL IN 150 IS CLOSE

Liberal Handicaps for Newer
Men Make Races Close
And Exciting

Grondal, DeFazio, and Broder were the winners from scratch the third fall handicap meet held last Saturday afternoon on Tech Field. Four field events and five on the track made up the program of nine events. Grondal won the discus, DeFazio the 1 1/4 mile run, and Broder the 150-yard dash.

The trials of the 150-yard dash were the first events on the program. The first heat was won by Broder in 15.45 seconds, while Kinraide, with a 3 foot handicap, was second. With a one foot handicap, Shaw took first place in the second heat in 16 seconds flat. Kreuzcamp took advantage of his three foot handicap to come in second. Peck, with a three foot advantage, took the third heat in 15.45 seconds. Steverman was second in this trial.

DeFazio Wins Long Run

Following the 150-yard trials the 1 1/4 mile run was held. DeFazio, Moody, and Wierzochi started from scratch and kept fairly well bunched from the start to the half-mile mark. DeFazio then drew away from the other two men while Moody began to draw away from Wierzochi. From then on it was all DeFazio's race and he finished well in front of the other runners, to complete the distance in 6 minutes 6.25 seconds. Moody was second, and Camerlingo third. Camerlingo's handicap was 75 yards.

Broder Leads in Final

Next came the final of the 150-yard dash. Broder finished first in this in one of the closest finishes seen on the track this year. Inches separated the first man from the fifth. Broder's time in this race was 15.45 seconds. Kinraide took second, with Peck third, and Steverman and Rosenthal fourth and fifth.

The 400-yard dash was won by Atkinson with a 30-yard handicap in 47 seconds flat. Serner took second place with a handicap of 25 yards. Lappin, running from scratch, took third place.

Kalleis Takes a First

With a handicap of 70 yards, Kalleis ran the 780 to win in 1 minute 47.35 seconds. Leadbetter started from scratch and finished in second place. Conant took third place and Thompson fourth.

The 120-yard low hurdles was won by Steverman in 15 seconds flat. Wall (Continued on Page 3)

BATON PLANS DANCE FOR CLUB MEMBERS

Walker Memorial is Scene of
First Affair of Season

Baton, honorary society of the Combined Musical Clubs, will hold its first dance of the year on Wednesday evening at 9 o'clock in the North Hall of Walker Memorial. Dancing is scheduled to last until 1 o'clock.

The Techonians, well-known dance orchestra of the Clubs, will furnish a six-piece orchestra for the affair. Refreshments, consisting of ice cream and cake, will be served during the evening. Mrs. William T. Hall will act as patroness at the dance, to which all members of the Combined Musical Clubs are invited.

Frosh! Don't Forget Elections Wednesday

Election of officers of the freshman class is scheduled to be held this Wednesday in the Main Lobby. As is customary in all Institute elections the preferential system of voting will be used by which the voter indicates, in the space provided, the order of his choice of the candidates for each position. Elections were originally planned for last Wednesday but were postponed on account of a mixup in the list of nominees.

Basement Scribes Hurl Threats at Humorists

Comes the announcement from the Basement of Walker, and in no uncertain terms, that a second great classic of the gridiron is to take place on Thursday. T. E. N. has thrown down the glove before Voo Doo, and the result promises to be nearly comparable to the great struggle between THE TECH and Technique on Wednesday. Rumor hath it that both publications are grinding the battle-axe with gleaming eyes and bared teeth, while all the school waits breathlessly for the verdict.

A. I. E. E. PLANS DINNER MEETING

Turkey Supper will be Served
At Second Gathering
This Season

For the second time this term, the freshmen and Sophomores of all electrical courses are invited to a dinner meeting of the M. I. T. Student Branch of the A. I. E. E., the dinner being held next Friday evening at 6 o'clock in the North Hall of Walker Memorial.

Turkey dinner with all the "fixings" will be served free of charge to all the men present. Immediately following the dinner, the meeting will adjourn to the Main Hall, where Mr. J. H. Bigelow of the Personnel Department of the New York Telephone and Telegraph Company will address the gathering on the subject, "An Introduction to the Bell System and Its Work."

Moving picture presenting some common problems in communication will be used to illustrate the lecture. The meeting will conclude promptly at 8 o'clock, so as to leave the rest of the evening free.

In order that sufficient provision may be made, those who expect to attend are requested to obtain admission cards from any member of the Executive Committee, or in Room 4-203 before next Thursday.

PROGRESS MADE IN SQUASH TOURNAMENT

Faculty Members Have Al-
ready Played Many Matches

At the conclusion of the second week of the Faculty Club Squash Tournament, several changes in the alignment have taken place. Quite a few matches have been played up to the present. Several days ago a card which will show the total number of games won and lost by each man was placed at the entrance to the squash courts, so that it in future it will be possible to watch the progress of the tournament closely.

The present standing of the first ten men in the tournament is as follows:

1. George G. Marvin (Chemistry)
2. Horace S. Ford (Administration)
3. Vannevar Bush (Electrical)
4. Avery A. Morton (Chemistry)
5. Louis F. Woodruff (Electrical)
6. Herbert D. Swift (Mechanical)
7. Edward Bowles (Electrical)
8. George Welch (Administration)
9. Fred Hartwell (Dormitories)
10. Thomas J. Killian (Electrical)

INSTITUTE EMPLOYEE KILLED IN ACCIDENT

Miss Alice E. Bracken, of 10 Blossom street, Chelsea, employed by the Institute as an attendant in the Supply Room for the Chemical and Mining Departments, was fatally injured when she was struck by an automobile on Memorial Drive last Friday evening, shortly before 6 o'clock. Miss Bracken was crossing the Drive at the time, and was struck by a machine proceeding in a westerly direction. She died shortly after arrival at the Cambridge City Hospital. She was 26 years of age, and has been employed by the Institute since April, 1923.

NEW HYDRAULICS LAB NEARING COMPLETION

Conversion of the old gas engine laboratory into a hydraulics laboratory is well under way. A concrete reservoir is nearly completed, and some of the apparatus for the laboratory has arrived. Prof. K. C. Reynolds is in charge of the new laboratory.

Crippled Soccer Team Beaten By Clark By 8 To 0

Freshmen Lose to Dean 2 to 0
—Varsity Plays Tufts
Team Tomorrow

Trounced 8 to 0, the Engineer soccer team lost its last out-of-town game this season to the powerful Clark eleven on the Clark Field at Worcester last Saturday afternoon. Although the M. I. T. team was crippled, due to the absence of several of its best players, the Clark eleven was much more powerful and scored an easy victory.

In the first quarter M. I. T. had several chances to score, Kashemsanta and Velez missing two free shots when the ball bounded off the crossbar. Clark immediately got underway and the Engineers were unable to withstand the furious attack. The Worcester team scored twice before the quarter ended.

M. I. T. Fails to Score

Although Technology had several chances to score again in the second quarter, the Clark defense was impregnable, and the Beavers were again held scoreless. Clark broke through the Cardinal and Gray back line once in this quarter and scored, making the count 3 to 0.

In the third period the crippled Varsity weakened, and their opponents started a big offense, which netted the Worcester team three goals in this session. Although Wyman, the Engineer goalie tried desperately to hold the Clark forwards, the score was 6 to 0 when the quarter ended. M. I. T. had a few chances to score in this period, but were unable to break through the defense line of their opponents.

Opponents Score Again

Clark increased the score to two more goals in the fourth to make the final score 8 to 0, the Beaver booters being held scoreless throughout the game.

On the Coop Field, the yearling booters lost their game with Dean Academy 2 to 0. The first Dean score came in the first quarter when Mayer, goal on the Engineer team, booted the ball into one of his teammates on Cyconski's try, the ball rebounding into the net. Dean scored again late in the final period, when Larsen, Dean halfback, sent the ball through Mayer after a scrimmage in front of the goal.

Tufts Here Tomorrow

Tomorrow, the Varsity meets Tufts in their last game of the season, while the frosh may have a game with (Continued on Page 3)

Bowery Ball Open To Student Body Of The Institute

Exhibition Room at Rogers will
Become Hogan's Hole
Friday Night

Hogan's Hole, the well-known dive in the Bowery of New York City, will live its life again for one night at the dance of the Architectural Society to be given next Friday, November 22, in the Exhibition Room, Rogers Building. The dance is not limited to the members of the society, but is open to all students.

This Bowery den has a past which should remain in the dark, but has been brought to light for the benefit of those who are unaccustomed with the habits and usages of the Bowery in the 1890's. The Architectural Society is attempting to reproduce the condition existing at the time of the closing of Hogan's Hole.

Various plates and engravings have been procured by the decorations committee in order to reproduce the setting and scene of the Hole in exact replica. Rogers on the night of the dance will be filled with ash-cans and bottles which should please the eye of the most critical.

This is the first year that the Architectural Society has opened its dance to Technology on both sides of the river. The dance will be a costume affair, the costumes to be typical of the Bowery of the 1890's. The music will be furnished by George Tyne's orchestra, and the dancing will be from 9 to 1. Tickets can be procured at the Voodoo office, or at the T. C. A. office in Walker Memorial.

ENGINEER HARRIER TEAM MAKES STRONG BID FOR N. E. TITLE

LIBERAL CLUB TO HEAR JOURNALIST

Gardner Jackson to Discuss
Moral Responsibility of
Newspaper Man

Gardner Jackson, Boston newspaperman and editor, will address the Liberal Club at 4 o'clock, in Room 1-190, on the subject, "Has the Newspaper Man a Moral Responsibility." Students and members of the Faculty are invited to attend the meeting as well as to take part in the discussion following Mr. Jackson's talk.

Although nationally famous in newspaper circles, the speaker of the afternoon is especially well known in Boston, and throughout New England, having served in various editorial capacities on Boston papers. He is a former editor of the Boston Evening Globe, and is at present the editor of "Lantern", and anti-Fascist Monthly.

During the celebrated Sacco-Vanzetti murder trials several years ago, Mr. Jackson served as Chairman of the Defense Committee, and was instrumental in carrying out the defense, as well as in presenting the side of the defense to the public.

A Free Lance Journalist

At present, although editor of the Lantern, Gardner Jackson is serving also as a free-lance journalist, having become known during the past two or three years for his articles on the newspaper world, the Sacco-Vanzetti case, and especially in regard to anti-Fascism.

In presenting his talk this afternoon, Mr. Jackson will attempt to bring to his audience, the attitude of the news editor in presenting moral issues to the public, and will, following the presentation of his talk, be glad to discuss the question with those present.

JUNIOR PROM POSTER CONTEST ANNOUNCED

Prizes of \$10 and \$5 Offered
For Best Designs

Numerous prospective artists about the Institute will be delighted to hear the announcement of the Junior Prom poster contest which has recently been made by the committee in charge of this function. Prizes of \$10 and \$5 have been offered.

Three colors (exclusive of black) will be used in printing the posters which will be on white cardboard 11 by 17 inches. The following printing must appear on the sheet:

JUNIOR PROM
WALKER MEMORIAL M. I. T.
FRIDAY FEBRUARY 21, 1930
ORCHESTRA

It has been suggested by the committee that the poster might take a futuristic character similar to the Theatre Guild poster for "Strange Interlude." The contest is open to all students of the Institute, and the designs must be handed in by noon on December 4 at Room 8, Rogers Building.

JANITOR PRAISED BY INSTRUCTING STAFF

One of the oldest employees of the Institute is Dan Holehan, head janitor of buildings 3 and 5. He has been associated with Technology since 1905, and is well liked by all the members of the instructing staff with whom he has come in contact.

Many interesting details are told concerning him. Inside of a week after the opening of the school semester, he has in his head the lecture hours of all the Professors whose offices are located in the buildings under his supervision, and can direct anyone to the room at which a certain lecture is being held. It is said to be no uncommon occurrence for him to remind a professor, who thinks he has no lecture at a certain hour, that he is due in a certain room to deliver a lecture on Applied Mechanics, Thermodynamics, or whatever it may be.

MAINE HILL AND DALERS TRY FOR THIRD STRAIGHT

Engineers, New Hampshire,
Bates, and Maine are Favored
Teams in Run

NORTHEASTERN IS GOOD

When the starter's gun cracks for the start of the annual New England Intercollegiate Cross-Country run this afternoon at Franklin Park, the University of Maine runners will make a serious bid to make it their third consecutive championship. Maine has won the annual run seven times out of sixteen starts while M. I. T., New Hampshire, Bates, and Williams have taken the title twice each. When Dartmouth was a member of the New England Intercollegiate Athletic Association, the Indians took one first place.

Technology Among the First

Of the fourteen entries in the meet, four stand out as being in an almost certain close-up for first place honors. M. I. T., Bates, Maine, and New Hampshire. Northeastern bids fair to rival the above four teams in their race for the coveted title. Maine comes down to Boston for the meet with the two men that did so much to place the Orono team first last year. Lindsay took first for Maine while Richardson was second. Neither of these men seem to have lost any of their pep in the year that has intervened and may be expected to do equally as well again this year. Bates is in somewhat the same state of affairs. With an almost intact team, and with new additions, they come to Boston with great hopes of taking away the championship. In the Maine State title race the Bates aggregation took first place honors away from the University of Maine.

Engineers Are Strong

Led by Captain Thorsen the Engineer team's prospects need little explanation. Thorsen placed eleventh in the 1928 run and may be expected to do better this year. Gilman, coming up from the freshman team, of last year is an able running mate for the Beaver captain and may be expected to finish among the first twenty. The Engineers have won from Holy Cross this year and were defeated by (Continued on Page 3)

SENIORS PLAN DANCE IN WALKER MEMORIAL

Annual Fall Ball Will Be Held
In Main Hall December 13

Holding dances in Walker Memorial seems to have become the fashion this year. The next ball scheduled for the Main Hall will be the Senior Dance on December 13, with dancing from 9 until 1 o'clock.

This is an annual affair held each fall by the Senior Class and only Seniors are admitted, no charge being made. Announcement will be made in the near future when a desk will be opened in the Main Lobby for the distribution of tickets.

Institute Employees Revel in Deep Thought

Pervading the atmosphere of Technology to its very depths, the spirit of culture and education makes its impression upon all those connected with the Institute. Only last Saturday, the bespeckled, white coated guardian of the Walker basement checkroom, was discovered deeply engrossed in a formidably sized volume, entitled "Contemporary Thought". Such devotion to the finer things of life serve to show that if the student body must adhere to the material point of view, the employees of the Institute themselves will contribute the appreciation of the spiritual side of life so closely associated with the modern college environment.

A Record of
Continuous
News Service
for 48 Years



Official News
Organ of the
Undergraduates
of M. I. T.

As We See the Movies

THE METROPOLITAN

In her previous pictures, Colleen Moore's acting was so obviously farcical that no attempts even at subtle humor were made. And now, in the current offering at the Met, she is seen as a tragedienne, the brave little chorus girl in "Footlights and Fools". Fortunately, one may be charitable to the picture when he realizes the situation. As Colleen's first attempt at drama, it is not a bad effort.

"Footlights and Fools" is another of those "behind-the-scenes" pictures which have become so very prevalent since the inception of the colored talkies. If the prime purpose of the picture was to afford Miss Moore a vehicle for her versatile personality, it is a complete success. During the course of the plot she roves all over the scale of emotions, and gives fairly creditable performances at each stop.

As "Betty Murphy", a former chorine, the famous "girl with the eyes" is given opportunity to use them to advantage as the French star in a revue, "The Sins of 1930". In masterfully gorgeous make-up, she appears for "her public" as an exotic, temperamental French spit-fire, refusing to meet any of the bevy of admirers who constantly storm the stage-door, and speaking only a few phrases of English. In reality, she is a simple, good-hearted girl, violently in love with a ne'er-do-well gambler.

The high point in her serious acting comes when she at last admits her disillusionment in the man—she shows some really good acting there. Raymond Hackett performs very well in his role of the lovable young man of questionable ethics, and the rest of the supporting cast, including Fredric March and Virginia Lee Corbin, are not bad.

Martin Downey begins his second week as master of ceremonies at the Metropolitan, his specialties this time being a group of Irish melodies. The rest of the stage show, titled "Tropical Nights", is up to par. With colorful scenes, soft music, good talent both in the chorus and in the cast, "Tropical Nights" will quickly take the mind off the long, long, winter ahead!

As We Like It

"A HUNDRED YEARS OLD"—the Majestic

In this day of mystery thriller plays a piece of the type of "A Hundred Years Old", at the Majestic this week, comes as a delightful novelty. The story is a simple narration of the trials of an Andalusian centenarian, Papa Juan, in the fulfillment of his plans to have every one of his children together at his one hundredth birthday party. The play is one that has long been a favorite on the Spanish and has been translated into English by Helen and Hartley Granville-Barker. It seems to have lost none of its charm in the process.

Otis Skinner is magnificent in the role of Papa Juan. A more capable person for the portrayal of the kindly and affluent old fellow in his justifiable pride in his excellent state of preservation can hardly be imagined. It is not however a one man show. Papa Juan has a great granddaughter, Currita, who is one of his greatest joys and Mary Arbenz, playing the part makes it more than easy to understand his weakness for her.

Then there is Dona Filomena very convincingly portrayed by Octavia Kenmore as a widow who has gone sour on the world. Her absolute reversal of attitude under the influence of a minute amount of Papa Juan's birthday wine serves as an excellent device for forgetting the past for a glorious present. Trine, a versatile scapegrace whom Papa Juan wishes to see united with Currita, is done in a workmanlike manner by Hardie Albright. Excellent work was done by the remainder of the well-balanced cast.

No one who insists on murder and mystery should go to see this play. Though there is never any note of tragedy there are some tense moments when the heart warming kindness of the old gentleman in his conflict with the intolerance of his children stirs one rather deeply. For a really delightful evening of the more quiet type "A Hundred Years Old" is unconditionally recommended.

You can either run right, if you're a back field man, or develop the "Reggie Brown hobble." Specifically, Coach Reggie Brown of Boston University has devised a new method with the assistance of Trainer Doc Collins at Nickerson field, that teaches a backfield the art of running correctly with the ball.

The device made out of stiff leather is a "spur or hobble." Worn on the inner part of the knee it results in a chafed leg if the runner dashes down the field with his knees close together.—University News.

THE OPEN FORUM

To the Editor of THE TECH:

In your issue of November 13, 1929, we observe an article pertaining to the Standard Senior Ring. Because the article misrepresents the ring situation, we feel that we should acquaint you and, through you, the undergraduate body, with the true aspect of the case.

To begin with, there has been no motion in any Institute Committee meeting to the effect that the Dome shall be on the face of the ring. The Ring Committee asked for discussion at the last Institute Committee meeting in order to ascertain the sentiment of that body on this matter. A show of hands was requested resulting in eleven men in favor of having the Dome and nine men in favor of having the Beaver on the face of the ring. Two of the eleven men immediately after the meeting examined the designs more closely and decided that they were in favor of having the Beaver on the face of the ring. This left the expressed opinion as eleven in favor of the Beaver against nine in favor of the Dome. Six men were absent, so it was impossible to obtain the opinion of the entire Institute Committee. It appears that sentiment was equally divided between the Beaver and the Dome.

To the best knowledge and belief of the Ring Committee, the Beaver has never been used on the Class Ring of any other school, and, moreover, only one other school in the United States has the Beaver as its mascot. Furthermore, our belief is that the beaver is now the mascot of the Institute. We being borne out in this belief by the 1915 TECHNIQUE, and by constant reference to the Beaver in the daily papers and in THE TECH itself.

The purpose of this letter is not to spread propaganda in favor of the Beaver but to prevent any misconceptions of the ring situation which might be caused by your article of November 13, 1929.

HAROLD P. CHAMPLAIN,
Secretary, Standard Ring Committee.

To the Editor of THE TECH:

The present controversy among the seniors regarding the insignia to be used on the rings was settled correctly. Both the beaver and the dome are equally symbolical of M. I. T., and since the dome appears a more striking design, artistically, to the discriminating upper classmen, their judgment should be emulated by succeeding classes as to what they want.

Traditionally, the various colleges have adopted certain animals as their mascots, which because of some ideal characteristics, expressed the general spirit of the student body. Consequently, the beaver, a highly ingenious and cunning creature in his habitat, is naturally most representative of Tech prerogatives and should be retained as the official symbol of the Institute; the individual groups of the school to decide for themselves.

ARTHUR A. PISTILLI.

Intercollegiates

Seven members of the varsity football team of the University of Arkansas are members of the local fire department.

The students of North Carolina State College are required to pay a fine of 50 cents for each class they cut.

Not a centipede contest, but a Dime Crawl, just another name for a campus dance is the way in which the women of the University of Oregon raise money for the foreign scholarship fund.

It is said that former pickpockets and safe crackers will lecture at the University of Chicago's school of police administration. This is an attempt to attack the problems of the police from the point of view of the criminals against which it is directed.

The upkeep of a small airplane compare favorably with the operating cost of an automobile, on the basis of distance covered, an official of a flying service has decided after a demonstration tried in a monoplane in which expenses were less than three cents a mile. The flyer visited fifty cities, and covered 17,124 miles. During the trip the ship was flown in 330 demonstrations by 108 pilots who covered 9,278 miles, while cross-country flights accounted for the remainder of the distance, the ship landing and taking off 410 times and carrying 656 passengers. Gasoline, oil, storage, service repairs and all incidentals totaled \$456.61. The flying time was 174 hours and thirty-six minutes, the cost per hour being \$2.61. The average speed was about ninety-eight miles an hour.



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To the oldtime beauty and sturdiness of our Forefathers' cloth, we've added new attractiveness with fine pencil stripes.

And, of course, the smart styles of our sack suits of Forefathers' cloth are equally up-to-date.

Solid colors, too, if you prefer.

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ROGERS PEET COMPANY
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**Demand
a mirror . . .
don't hesitate!**

CHOOSE your pipes as you do your hats—try 'em on. See how they look.

How a pipe feels is *your* worry—but how a pipe *looks* is a matter of community concern. A bulldog pipe in a greyhound face would sear the souls of one's remotest associates. One owes one's duty . . .

The tobacco, now, is your personal business entirely. Take no man's preference—find your own.

Here's Edgeworth, a good old burley graduated with the Class of '04. Like to meet Edgeworth at our expense? See the coupon? Fill it out, and soon thereafter the postman will bring you—these magic mails!—a neat little glad-to-meet-you packet of the real, the genuine, the good, the unchanging Edgeworth. . . Don't mention it! The trick is you'll be buying Edgeworth later!



EDGEWORTH

Edgeworth is a careful blend of good tobaccos—selected especially for pipe-smoking. Its quality and flavor never change. Buy it anywhere—"Ready Rubbed" or "Plug Slice"—15¢ pocket package to pound humidior tin.

Larus & Bro. Co., Richmond, Va.
I'll try your Edgeworth. And I'll try it in a good pipe.

(Witness my seal)

(and my seat of learning)

(and my postoffice and state)

Now let the Edgeworth come!

PERHAPS Daniel H. Burnham did not realize the significance, to his own city, when he uttered those words in London many years ago. To anyone they are excellent advice, but to Chicago, they mean accomplishment. Mr. Burnham was a philosopher, but he was a practical dreamer—an artist, but an engineer. In 1907 he conceived a bold, romantic plan—"utterly impractical", said his opponents—and with the above words as his creed, he has carried out in his Chicago a plan of civic beautification and utilization which has put to shame the small original plan.

To him and his Plan Commission grateful Chicago may lay the building from out the very lake itself a system of boulevards and parks which have made the city's eastern edge a beauty spot instead of a hideous railroad yard, and have relieved immeasurably the traffic tangles of a great metropolis. This group has removed the archaic buildings which spoil most city landscapes and replaced them with edifices of architectural beauty—not one structure, but hundreds, and their size, beauty and number is growing constantly. The Plan Commission's efforts have made it possible for any Chicago family to reach real forests within a short drive of home. They have put Chicago, in the words of an Easterner who has recently devoted much time in study there, "many jumps ahead of every other city in the world."

They have not done this without much opposition. They have carried on in spite of the most unfavorable publicity. While such an opinion is erroneous, Chicago to the average man is a dangerous territory, stronghold of gangmen, the home of vice, violence and corruption. In the rating by the Prudential Insurance Company of cities according to their crimes of violence, Chicago is far from the top. Adverse propaganda has been quickly accepted as fact by a willing nation. But did this fact deter its far-sighted citizens? Not in the least. And the monuments to their work are erected in lasting stone.

To the average engineer, Chicago's experiences have a profound moral. Chicago does everything in a bold way—and look at its accomplishments! The city goes on with worthwhile work, while the nation raves and rages over its trivial shortcomings. Its commissions have set their eyes on a far goal, and are working steadily towards it—"come Hell or high water."

One sees mottoes in offices whose prime purpose is to cover up a flaw in the wall. But the one we have printed above is real—it epitomizes the growth of an immense city. That city is typical of our age as is no other in the world. Its problems are ours—its solution to those problems has been effected by men who "made no little plans."

OPEN DOORS

AT the suggestion of the Curriculum Committee last year there was a general adoption of the policy among the instructing staff of holding certain hours open for the purpose of permitting those who were deficient in their studies to confer with them. As a result, cards are posted on many of the office doors, indicating which hours are free for this purpose.

Yet the general complaint is that the students whom their instructors wish most to see in conference neglect this opportunity. Capable students who shirk their work in any given course need the advice and help of the instructor in planning a more effective schedule of study. The tendency of this type of student is to avoid meeting the instructor outside of class for fear of receiving a good old-fashioned "bawling out".

A trial would show this to be far from the case. There is always some underlying reason for the failure of a capable student to obtain creditable marks. Sometimes the missing of one point in the text causes a student to lose interest in the subject because he assumes it is beyond him. Others fall behind in their work due to outside activities, and believe themselves incapable of recovering lost ground. No student worthy of the name deliberately neglects his work, and few are those who really cannot do justice to a prescribed course of study at the Institute.

CALENDAR

Monday, November 18

5:00—Instrumental Club Rehearsal, East Lounge, Walker
5:00—Meeting of Hockey Candidates in Room 1-190
8:00—Chemistry Society Smoker, North Hall, Walker

Tuesday, November 19

7:30—Alpha Chi Sigma Meeting, Faculty Dining Room, Walker
7:30—Techa Show Rehearsal, Walker Gym
8:00—Menorah Society Dance and Lecture, North Hall, Walker

Wednesday, November 20

8:00—Baton Society Dance, North Hall, Walker

Notices—Announcements

TECH SHOW

There will be a meeting of all candidates for the Business Department of Tech Show tonight at 5 o'clock in the Show office, third floor of Walker.

CORRECTION

THE TECH wishes to make a correction in the name of Edward F. Thiel, Jr., nominated for the Executive Committee of the freshman class. The name was erroneously given as Edward F. Chieler, Jr.

Tests Developed For More Safety In Gas Appliances

Carbon Monoxide Given Off by Gas Burners Investigated By A. G. A.

That safety in operation is one of the most necessary conditions in making a gas appliance suitable for general use has long been recognized by the American Gas Association, and details have been published recently in regard to the methods which are used to determine whether such appliances are safe enough to merit the approval of the Association.

One of the most important considerations involved in this work is the amount of carbon monoxide given off during combustion in a gas-burning appliance, such as a stove, furnace, or other type of heater. As the rules of the Association state that no carbon monoxide must be evolved, it is necessary to use an apparatus of extreme sensitivity to indicate the presence of this noxious gas which is capable of producing death even when present in very small quantities. The most accurate test that has been devised makes use of what is known as the "iodine pentoxide" apparatus, and is sensitive to within 0.002 per cent of carbon monoxide in the sample under test.

Methods of Sampling

But, even though the analytical apparatus itself is extremely accurate, the results obtained can be no more accurate than the method used in obtaining the sample for analysis. It is to this problem that the greatest effort on the part of the chemists of the American Gas Association has been directed. The problem involves consideration of whether the sample taken is representative of the whole; methods of collecting the gas so that its composition is not changed due to changing the air mixture or otherwise.

Samples for analysis are usually collected at the point where the gases of combustion enter the chimney or flue, but in some cases the gases are collected by means of a hood placed over the burners of the appliance. Samples are taken from ranges and radiant heaters in this way.

Among endurance records that of a little hen at Oklahoma A. and M. College is worthy of mention. She is 19 years old, has laid 1100 eggs and has "served" under seven presidents of the college, five deans, six extension department directors, and three poultry department heads.

Amherst, faced by the same difficulty of receiving co-operation in the "hello" custom that is continuously lamented at the Institute proposes the following amendment editorially: "Amherst men grunt if they feel like it when passing each other on the streets or campus."

Freshmen, Watch Your Step in Near Future

Word has come from the Freshman Rules Committee concerning the increased enforcement of the freshman rules in the near future. According to Theodore A. Riehl '30, chairman of the Committee, a subvigilance committee has been selected and a greater effort will be made to enforce the law than in former years. The dire consequences which an infringement of the rules will bring about would not be divulged, but all freshmen are warned to beware.

Winners in Past New England Championships

VARSITY

1912—Dartmouth
1913—Maine
1914—Maine
1915—Maine
1916—Williams
1917—M. I. T.
1918—No Race
1919—New Hampshire
1920—M. I. T.
1921—Maine
1922—Maine
1923—Bates
1924—Williams
1925—Bates
1926—New Hampshire
1927—Maine
1928—Maine

FRESHMAN

1925—M. I. T.
1926—New Hampshire
1927—New Hampshire
1928—New Hampshire

MILITARY BALL TICKETS READY

Dance Sponsored by Scabbard and Blade will be Held at Longwood Towers

Tickets are already on sale for the annual Military Ball sponsored by the Scabbard and Blade, National Military Fraternity. The dance will be held next Friday evening in the Fountain Room of Longwood Towers, beginning at 9 o'clock, and continuing until 2. Leo Reisman, who needs no introduction to those attending last year's Prom, will supply the music. A feature of the evening will be a formal pledging exercise, in which the Society will pledge the new men for this semester.

Patrons and patronesses will be Col. and Mrs. Edward F. Miller, Col. and Mrs. Robert C. Eddy, and Maj. and Mrs. Robert Arthur. Tickets, priced at \$3, will be on sale from 12 to 2 o'clock in the Main Lobby every day this week.

Rogers Notes

Overheard by a pernicious eaves-dropping reporter for THE TECH, who was standing on the corner of Washington and Tremont Streets.

"Yes, I'm not going to wear anything!" the young thing insisted, as her male escort pleadingly tried to say "But think of the men. Imagine my embarrassment to be seen walking with you, and you having nothing on." Replied she promptly, "Why you old soak, you old meany, and selfish old dote, why think of yourself always. Imagine these hard-working engineers on the other side of the river, who toil insistently over well-worn drafting tables. They lack a general education, and I intend to give them what they miss. Don't be a s'il, I intend going to the 'Bowery Ball' of the Architectural Society a la naturale, and you won't do anything about it. No college course is complete without its extra-curricular activities, and I'm one of them."

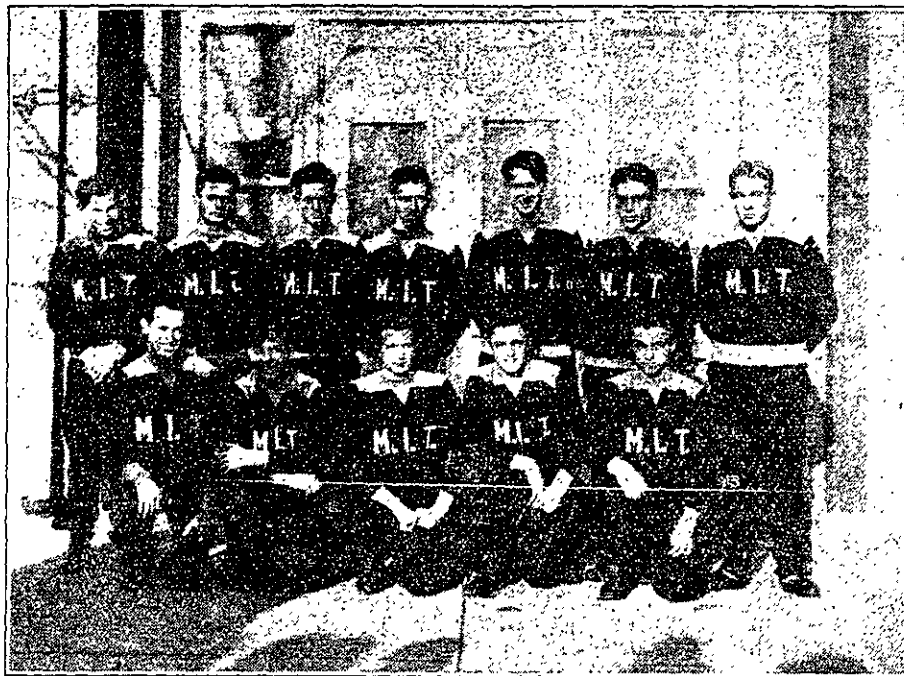
Well, gentlemen of the Beaver here is your chance, get your worth from college by attending the brawl to be given by the artists over at Rogers. The drag is only 1.50 per, and the time of wrestling or dancing from 9 to 1. The less you are dressed the more classy the outfit, but to be sure it is a costume. Seek a woman or come minus the wench, but be there it is to your cultural benefit. Get your tickets at the Voo Doo office, line forming at the foot of the stair and going up, or procure your admits at the T. C. A. office.

HARRIERS TENDERED DINNER BY D. U.'S

All of the members of the varsity and freshman cross country teams which are scheduled to run in the N. E. I. C. A. A. race today were entertained at a dinner yesterday given in their honor by the Delta Upsilon fraternity.

Sliding panels and such are supposed to be confined to detective stories, but a new apartment house had sliding walls so they can give you an apartment any size you want.

The M.I.T. Cross Country Team



Standing: Herbert, Berry, Allbright, Captain Thorsen, Baltzer, McSheehy, Moody.—Kneeling: Kallielis, McNiff, Fisk, Gilman, Littlefield.

World's Largest Artificial Harbor Nears Completion at Los Angeles

Nearly Two Million Tons of Rock Blasted for Construc- tion of Breakwaters

The greatest artificial harbor in the world will be the result of the completion of the third breakwater of the Los Angeles-Long Beach development. The second breakwater has just been completed, and the third is soon to be projected. The city of Long Beach spent \$2,700,000 on moles, bulkheads, and a long breakwater extending 8,000 feet seaward from the western part of the city.

San Pedro, part of the corporate city of Los Angeles, several years ago built 2.11 miles of breakwater to shield its important shipping, now second in total volume among United States ports. The third and last link, which will consist of approximately two miles between and in unification with the Long Beach project, will form a quiet water harbor having a surface area of more than ten square miles.

Mining of Rock a Problem

From an engineering standpoint, the Long Beach project consists of two major works. First is the actual construction of the moles, bulkheads, and breakwater, and second the quarry plant, together with the transportation of the rock supply for the harbor protective units.

Long Beach has long wanted to have adequate harbor facilities, and the contract was finally awarded to the Hauser Construction Company in 1925. Since then there have been built nearly three miles of breakwater, with 1,774,000 tons of rock having been mined, transported, and placed in position.

Six separate structures comprise the outer harbor. The breakwater 7,100 feet long runs due south from the west bank of the flood control channel at Pico street 4,200 feet into the sea, then goes at an angle 2,900 feet southwest toward the end of the San Pedro breakwater. The first 4,000 feet will ultimately form part of the projected government breakwater. The east mole runs south 1,900 feet. At its southerly tip is the east bulkhead, 425 feet long and running east and west to form a protection to the bathing beach, between the breakwater and the mole. The west mole points south into the sea 2,700 feet just west of the inner harbor entrance. Two rock structures at the end of this structure form a "T," the west bulkhead extending 700 feet toward a similar structure from the Los Angeles side of the harbor. The entrance basin bulkhead runs easterly 900 feet to prevent the entrance harbor from silting up.

Unique Methods Used

The construction of the breakwater was completed in record time because of the new methods used. Some of the largest quarry blasts ever made were touched off at the Hauser Quarries at Riverside, about 80 miles from Long Beach Harbor. The structure consists of a core of quarry-run rock armored on each side with large rock. Rock dumping averaged 3,000 tons or more each eight hours. The biggest eight hour placement was 4,200 tons, which was said by the government inspecting officials to be the record for speed in this type of work.

Some of the rock was placed in cars that unloaded by pneumatic pressure, but with the flat-cars, an unusual method was employed. A large steam shovel was set on the first flat-car, the whole train was run out on a trestle, and the steam shovel traveled the length of the train, pushing the rock off the cars as it went. Some of the rocks were so large that they were lifted and dropped off.

After experimentation, it was decided that the rock in the immediate vicinity of the projected development was so soft as to be unusable for harbor work. The blasting shattered

this rock so that it was too small. After a systematic search, a hill in the San Bernardino mountains was found just west of the city of Riverside, about 80 miles from Los Angeles. This hill was of sound blue granite, and was 300 feet high, a mile long, and 1,700 feet wide. This mountain has been developed into the largest "big rock" quarry in the United States. The camp consisted of 150 men with houses, commissary, and sanitation. Several miles of railroad track were laid, a machine shop and power plant built and equipped, a water supply provided, and adequate facilities for storage of large quantities of explosives and fuel were prepared. The entire mountain contains approximately 15,000,000 tons of usable granite rock.

What is said to be the largest quarry blast ever detonated in western America dislodged 1,000,000 tons of rock at one time. Four hundred and fifteen thousand pounds of 20% dynamite were used in this blast. Several months were spent in careful preparation. Six "coyote holes" were driven distances of from 100 to 140 feet into the solid rock, and crosscuts were bored to join them. Both drilling and blasting were used to cut through these small holes. So well-calculated were the blasts that comparatively small amounts of the rock came out over or under the required weights—five tons to fifteen tons.

The geophysical department of the Continental Oil Company makes use of an instrument known as the Eotvos torsion balance. It is extremely delicate, and detects slight differences in underground rock structures by measuring the gravitational pull.

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ATTENTION STUDENTS

The MILIA CAFE, formerly of 295 Columbus Ave., is now occupying the entire second floor at 341 Massachusetts Ave., Boston. Students are solicited to try our special Steak, Chicken and Spaghetti dinners, which need no recommendation. Our French and Italian Cuisine are at your service, and our food and prices will be to your liking.

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